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## Education

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### The Ohio State University

Doctor of Philosophy: AED Economics 2015  
Dissertation: Essays on the World Food Crisis: An Assessment of Policy Options  
Advisor: Dr. Mario J. Miranda  
GPA: 3.897  
Master of Arts: Economics 2011

### The London School of Economics and Political Science

Master of Science: Econometrics and Mathematical Economics 2003

### Universidad de Costa Rica

Licentiate: Economics 2002  
Thesis: Pass-through en Costa Rica (Summa Cum Laude)  
Advisor: M.Sc. Anabelle Ulate Quirós  
Bachelor: Economics 2000

## Professional Experience

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### Consejo Monetario Centroamericano

Since November 2016

*Economist*

DSGE modeling. Coordinate the Technical Committee on Payments Systems. Responsible for a project to launch a new academic journal. Teach time series analysis at central banks of the CMCA.

### Inter-American Development Bank

July 2006 - July 2008

*Research Analyst, Research Department*

Collaborated on research about the impact of external factors on Latin America's economic growth. Conducted macroeconomic analysis of current trends in Central American countries.

### Central Bank of Costa Rica

July 1999 - July 2006

*Economist, Monetary Department*

Conducted research on monetary economics topics. Improved the operations of computing the monetary program. Coordinated the compilation of the first International Investment Position of Costa Rica. Improved the quality of the statistics on public external debt of Costa Rica. Taught two courses on econometrics to fellow economists.

## Academic Experience

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### Universidad de Costa Rica

Since October 2015

*Researcher, IICE and Department of Economics*

Currently teaching Macroeconomics in the Economics graduate and undergraduate programs.

### The Ohio State University

2008 - 2015

*Instructor, Department of AED Economics*

Taught the courses on Economic Development of Latin America (Spring 2012 and Spring 2011) and Economics of Food, Population and Environment (Winter 2012 and Summer 2011).

*Research Assistant*

Developed spatial-temporal rational expectations equilibrium models to analyze the impact of China's integration on the world grain markets.

*Teaching Assistant*

Advanced Quantitative Methods; Principles of Agribusiness Finance; Economic Development; Economic Development of Latin America; Economics of Food, Population and Environment .

### Universidad de Costa Rica

2004 - 2006

*Instructor, Economics Department*

Taught courses in the graduate (Advanced Econometrics I and II, Advance Macroeconomics I) and undergraduate (Econometrics II, Intermediate Econometrics) programs.

### Other teaching activities

*2014 AAEA Annual Meeting, Minneapolis, MN*

July 2014

Pre-conference Workshop on Applied Computational Economics. Joint with Mario J. Miranda and Dmitry Vedenov

*Central Bank of Costa Rica*

September 2009

Workshop on computer programming using MATLAB, with applications to econometrics (24 hours)

*Universidad Autónoma de México*

May 2006

Workshop on regime-switching models for graduate students (10 hours)

### Visiting professor

Universidad de Navarra (October 2017); Universität Osnabrück (December 2016), Universidad Aunónoma de México (May 2006).

## Honors

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**Bronze Medal** 10<sup>th</sup> Ibero-American Mathematical Olympiad: *Vina del Mar, Chile (Sept. 1995)*  
**Best Economics GPA** Universidad de Costa Rica (1996)

## Skills

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**Computer Software** MATLAB, R, Python, Stata, EViews, SAS, Dynare, L<sup>A</sup>T<sub>E</sub>X  
**Languages** English and Spanish

## Working Papers

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*Sustainability of Regional Food Reserves When Default Is Possible.* (with M.J. Miranda and J.W. Glauber) Selected Paper for the 2015 International Conference of Agricultural Economists, Milan, Italy.

*Drivers of the World Grain Price Crisis in the Short- and Long-Run: A Spatial-Temporal Rational Expectations Equilibrium Approach.* (with M.J. Miranda) Contributed Paper for the 2014 ZEF-IFPRI Workshop on Food Price Volatility and Food Security, University of Bonn, Germany.

*Food Security for Whom? The Effectiveness of Food Reserves in Poor Developing Countries.* (with M.J. Miranda) Selected Paper for the 2014 AAEA Annual Meeting, Minneapolis, MN.

*The Global Food Price Crisis and China-World Rice Market Integration: A Spatial-Temporal Rational Expectations Equilibrium Model.* (with X. Liu, S. Chen and M.J. Miranda) Selected Paper for the 2013 AAEA Annual Meeting, Washington, DC.

*Booms and Busts in Latin America: The Role of External Factors.* (with A. Izquierdo and E. Talvi) Inter-American Development Bank, Working Paper 631, February 2008

*Effects of Trends in Chinese Production, Consumption, and Price Support Policies on World Grain Price Volatility and Food Security.* (with M.J. Miranda and J.W. Glauber) Invited paper for the Food Price Volatility, Food Security and Trade Policy Conference, World Bank, September 18-19, 2014, Washington DC